

**(19) World Intellectual Property
Organization
International Bureau**



(43) International Publication Date
26 August 2004 (26.08.2004)

PCT

(10) International Publication Number
WO 2004/072441 A1

(51) International Patent Classification⁷: F01B 5/00,
13/04, F02B 75/26

(21) International Application Number:
PCT/AU2004/000124

(22) International Filing Date: 4 February 2004 (04.02.2004)

(25) Filing Language: English

(26) **Publication Language:** English

(30) **Priority Data:**
2003900473 4 February 2003 (04.02.2003) AU

(71) Applicant and

(72) **Inventor:** MATTHEWS, Norman, Leslie [AU/AU]; 18
Cliff Way, P.O. Box 736, Claremont, W.A. 6010 (AU).

(74) Agent: COLLISON & CO; 117 King William Street, Adelaide, S.A. 5000 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

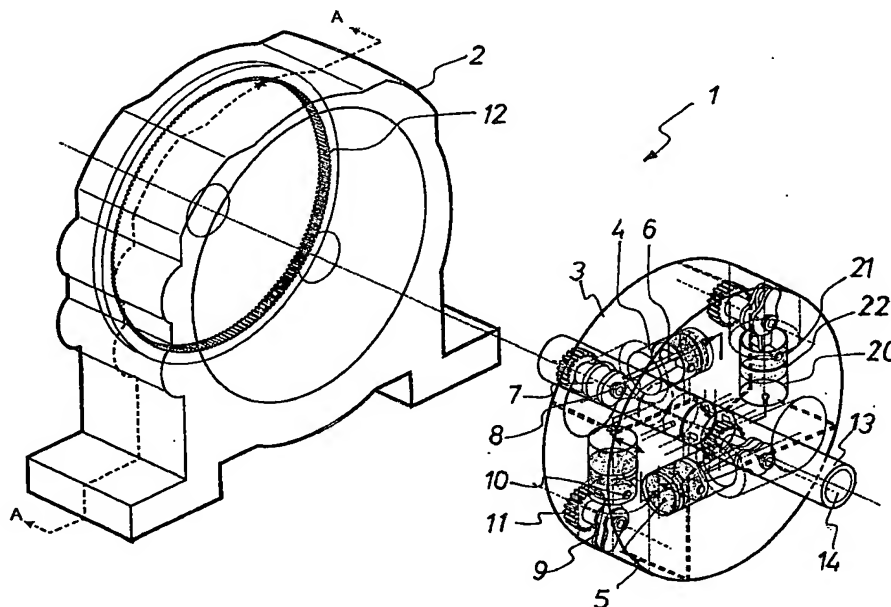
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ENGINE WITH ROTARY CYLINDER BLOCK AND RECIPROCATING PISTONS



(57) Abstract: An engine (1) having a fixed portion (2) and a separate cylinder block (3) that is retained by the fixed portion (2) so that it can rotate relative to it. The cylinder block (3) is a rotor that defines at least one bore (4) in which a piston (5) can reciprocate, wherein the piston's (5) reciprocating motion is converted into a circular motion that assists in rotating the cylinder block (3) relative to the fixed portion (2) to provide a work output.

WO 2004/072441 A1